

**LOAD LEVELING IN MOBILE AD-HOC NETWORKS TO SUPPORT END-TO-END DELAY REDUCTION, QoS AND ENERGY LEVELING**

**Abstract of the Disclosure**

The method routes message data from a source node to a destination node in a mobile ad hoc network (MANET). The MANET has a plurality of intermediate mobile nodes between the source node and the destination node, and a plurality of wireless communication links connecting the nodes together. The method includes prioritizing the message data according to a type-of-service (ToS), discovering routes from the source node to the destination node, and ranking the discovered routes according to quality of service (QoS). Message data is distributed to the destination node on the discovered routes based upon the ToS of the message data and the QoS of the discovered routes, including distributing message data having a same ToS on multiple discovered routes, and distributing message data having higher priority ToS, e.g. delay sensitive message data and/or large volume message data, on higher ranked discovered routes.